Utility Patent
Alice A Johnson
File Date June 12, 1995
File #08-497,997
Primary Examiner/F J Bartuska
Continuation In Part Application Pg. 15

CLAIMS TO PRESENT INVENTION

having thus described the invention, **what is claimed:**

(1) A computer system(hereafter CPU) having a compiler memory, compiled in soft and hardware languages, logic binary code having necessary supporting CPU elements, to translate a vending machines functional sequential operations written in a higher level language by a programmer to a corresponding sequence of machine language instructions on order of operations, whereby performance and desired functional operations will be executed, having a designed arrangement to form a coin operable, CPU controlled vending apparatus, that selectively dispenses food and non food products, cancel a vend mode operation, activate a data control cycle, whereas the CPU operating systems interfaced handshaking modem can access the stored data and transmit, it a personal computer therefrom, comprising in combination
housing structure means having side, top, bottom and rear wall portions, said housing structure means arranged to be transported to the site of intended use and positioned as a floor mounted unit:

(2) a CPU system controlled vending machine system claim 1 in which plurality multiple coin acceptors units (hereafter multi) having elements with adapted means sustaining a flip flop circuitry, arranged whereby "an external insertion of first coin deposit" provides a "stimulus" causing a change in its condition, creating an output toggle pulse, which inputs interfaced, handshaking CPU thus activating it programs of operations, the multi coin in acceptors units are located in the doors housing, aligned with each door members, individual transparent compartment door located in present invention housing, thereof;

(3) a CPU system controlled vending machine, claim 2, having a CPU interfaced, hand shaking segmented independent subassembly subroutines coin catch, hold, sort, divert, stack, and change back unit, located in the center housing of change back unit housing, thereof, with coin carrying tracks extended from coin acceptors, directing coins into each segments catch hold bin, located on change back units housing edges thereof, a divert chute path, having adapted means to sustain a divider chute path, that receives a signal from CPU that controls directions of coins paths position, preventing overflow of coin stacks, and coin in jams, located in center sections of each segments subassembly subroutine, under the catch hold bin located in change back units housing thereof;

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a CPU controlled binary coded VDC pulse operated interfaced handshaking conductive micro thumb shaped device, having properties to sustain, a controlling reaction when VDC binary code is applied, thus giving said thumb ability to count and control coins disbursement from coin stacks as change back to consumers, utilizing the present or absent of a pulse to hit appropriate stacks, in such a way it causes one coin out per pulse, a conductive micro thumb is located on each coin stack housing, thereof; located on coin change unit housing thereof; located in present invention, lower front housing, thereof.

(4) a CPU system controlled vending machine, claim 3, having a plurality of structured VDC step motor controlled race track form reel wheels, with connecting plurality set of solenoid locking bridged bars swing type object product holding shelves, as means of storing products until selected and purchased, located in inner housing center section, shelter by plurality of front doors, located in present invention housing, thereof.

(5) a CPU system controlled vending machine, claim 4, having a plurality of front doors, providing supporting housing for their incorporated plurality of individual transparent door members compartment doors, the plurality CPU controlling coin in acceptors, the pop-up T lock allowing servicing to apparatus, and the index button that is the external means of operating the structured VDC step motor that controls movement of the race track formed reel wheel, with connecting solenoid locking bridged bars swing type objects, allowing products to be viewed by consumer before selecting, the doors providing security for center sections elements and structures, while providing their individual transparent door members compartment door means of obtaining the stored products from the solenoid locking bridged bars swing type object shelves are located in the center section of present invention housing, thereof.

(6) a CPU system controlled vending machine, claim5, having an index button, whereby when suppressed will activate the VDC step motors controlling the structured race track form reel wheels for viewing the products, whereby pre calculated in precise revolutions per second, (hereafter rps) interfacing the CPU allows a swing type object aligned and positioned for a purchase in the individual transparent compartment door, and whereas said index button is operable at an idle state or active one thus allowing a consumer to view a product before a coin deposit or after.

(7) a CPU system controlled vending machine, according to claim 1, having a numerical binary coded keypad peripheral punch device with digital display screen whereby punching in binary code will allow the CPU programs of operations to activate optional service modes in present invention, thereby allowing servicing, loading and on location diagnostics self test etc., the keypad takes it housing on inner wall mid section of present invention housing thereof.

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(8) a CPU system controlled vending machine, according to claim 1, having programs of directive operations, in setup, sample spreadsheets, help tips literature written in a basic computer format, designed in software packages of both 3.5 floppy diskettes, and C-D ROM , having compatibility loaded on any personal computer, such as an IBM or MAC

(9) a CPU system controlled vending machine, according to claim 1, having a digital display screen in design of a miniature window for the consumer, advising consumer of errors in coin deposits, service needed try another row, as existing equipment only has one chance, consumers need to know the options) and other advisory notes, directing consumer how utilize CPU system controlled correctly, the advisory digital print out screen is located in the lower right corner of CPU private housing thereof, CPU private housing located in top front portion of present invention housing, thereof.